

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. APPLICATION NO. 09/977,194
ATTORNEY DOCKET NO. Q66658

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently amended): A picture displaying apparatus, comprising:

 a plurality of scanning lines to which scanning signals are inputted, respectively;

 a plurality of data lines to which data signals are inputted, respectively;

 a light emission element disposed at each of a plurality of intersections composed of said plurality of scanning lines and said plurality of data lines;

 a picture displaying unit having said plurality of light emission elements; and

 a memory unit storing a single display data indicative of an a display content of said picture displaying unit, and

 wherein said memory unit has a plurality of memory cells, and

 wherein each of said plurality of memory cells stores a unit display data of a part of said single display data, and

 wherein a plurality of said unit display data stored in said plurality of memory cells are read from said memory unit in a different order for each single predetermined frame or each plural predetermined frames, and

 wherein said plurality of unit display data are written to said picture displaying unit in an order when said plurality of unit display data are read from said memory unit, such that said

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display content in said picture displaying unit is different for said each predetermined frame or frames.

2. (Original): The picture displaying apparatus according to claim 1, wherein when said plurality of unit display data are read from said memory unit, at least one specific memory cell among said plurality of memory cells is used as a read start position and said plurality of unit display data are read in accordance with an arrangement order of said plurality of memory cells from said specific memory cell, and

wherein, said specific memory cell is changed for said each predetermined frame or frames.

3. (Original): The picture displaying apparatus according to claim 1, wherein a part of said plurality of unit display data is changed before said part of said plurality of unit display data is read from said memory unit, and

wherein said plurality of unit display data including said changed part of said plurality of unit display data are read from said memory unit in said different order for said each predetermined frame or frames, and

wherein said plurality of unit display data including said changed part of said plurality of unit display data are written to said picture displaying unit, in accordance with said order when said plurality of unit display data are read from said memory unit.

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4. (Original): The picture displaying apparatus according to claim 2, wherein a part of said plurality of unit display data is changed before said part of said plurality of unit display data is read from said memory unit, and

wherein said plurality of unit display data including said changed part of said plurality of unit display data are read from said memory unit in said different order for said each predetermined frame or frames, and

wherein said plurality of unit display data including said changed part of said plurality of unit display data are written to said picture displaying unit, in accordance with said order when said plurality of unit display data are read from said memory unit.

5. (Currently amended): A picture displaying apparatus, comprising:
a plurality of scanning lines to which scanning signals are inputted, respectively;
a plurality of data lines to which data signals are inputted, respectively;
a light emission element disposed at each of a plurality of intersections composed of said plurality of scanning lines and said plurality of data lines;

a picture displaying unit having said plurality of light emission elements; and
a memory unit storing a single display data indicative of an a display content of said picture displaying unit, and

wherein said memory unit has a plurality of memory cells, and
wherein said picture displaying unit has a plurality of pixels corresponding to said plurality of light emission elements, and

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wherein each of said plurality of memory cells stores a unit display data of a part of said single display data, and

wherein said unit display data is written to each of said plurality of pixels, and

wherein a plurality of said unit display data read from said plurality of memory cells are written to said picture displaying unit in a different order for each predetermined frame or each plural predetermined frames, such that said display content in said picture displaying unit is different for said each predetermined frame or frames.

6. (Original): The picture displaying apparatus according to claim 5, wherein, when said plurality of unit display data are written to said picture displaying unit, at least one specific pixel among said plurality of pixels is used as a write start position and said plurality of unit display data are written in accordance with an arrangement order of said plurality of pixels from said specific pixel, and

wherein said specific pixel is changed for said each predetermined frame or frames.

7. (Original): The picture displaying apparatus according to claim 5, wherein a part of said plurality of unit display data is changed before said part of said plurality of unit display data is read from said memory unit, and

wherein said plurality of unit display data including said changed part of said plurality of unit display data are written to said picture displaying unit in said different order for said each predetermined frame or frames.

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8. (Original): The picture displaying apparatus according to claim 6, wherein a part of said plurality of unit display data is changed before said part of said plurality of unit display data is read from said memory unit, and

wherein said plurality of unit display data including said changed part of said plurality of unit display data are written to said picture displaying unit in said different order for said each predetermined frame or frames.

9. (Original): The picture displaying apparatus according to claim 1, wherein said picture displaying unit is designed such that lights of said picture displaying unit can be emitted in three colors of R, G and B, and

wherein a supply of currents to said plurality of data lines corresponding to at least one of said three colors of R, G and B is stopped, such that said lights are emitted from said picture displaying unit in one or two colors among said three colors of R, G and B.

10. (Original): The picture displaying apparatus according to claim 5, wherein said picture displaying unit is designed such that lights of said picture displaying unit can be emitted in three colors of R, G and B, and

wherein a supply of currents to said plurality of data lines corresponding to at least one of said three colors of R, G and B is stopped, such that said lights are emitted from said picture displaying unit in one or two colors among said three colors of R, G and B.

11. (Original): The picture displaying apparatus according to claim 9, wherein said at least one of said three colors of R, G and B is changed for said each predetermined frame or frames.

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12. (Original): The picture displaying apparatus according to claim 10, wherein said at least one of said three colors of R, G and B is changed for said each predetermined frame or frames.

13. (Original): The picture displaying apparatus according to claim 1, wherein said single display data is one of static picture data and dynamic picture data.

14. (Original): The picture displaying apparatus according to claim 5, wherein said single display data is one of static picture data and dynamic picture data.

15. (Original): The picture displaying apparatus according to claim 1, wherein said light emission element is one of an EL element, a light emitting diode and an FED.

16. (Original): The picture displaying apparatus according to claim 5, wherein said light emission element is one of an EL element, a light emitting diode and an FED.

17. (Currently Amended): A method of driving a picture displaying apparatus, comprising:

(a) providing a picture displaying apparatus which includes a picture displaying unit having a plurality of light emission elements, said plurality of light emission elements being disposed at a plurality of intersections composed of a plurality of scanning lines to which scanning signals are inputted, respectively and a plurality of data lines to which data signals are inputted, respectively;

(b) providing a memory unit storing a single display data indicative of an a display content of said picture displaying unit, wherein said memory unit has a plurality of memory cells, and each of said plurality of memory cells stores a unit display data of a part of said single display data;

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(c) reading a plurality of said unit display data stored in said plurality of memory cells from said memory unit in a different order for each single predetermined frame or each plural predetermined frames; and

(d) writing said plurality of unit display data to said picture displaying unit in a order when said plurality of unit display data are read from said memory unit, such that said display content in said picture displaying unit is different for said each predetermined frame or frames.

18. (Original): The method of driving a picture displaying apparatus according to claim 17, further comprising:

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(e) changing a part of said plurality of unit display data before said (c) is performed, and wherein at said (c), said plurality of unit display data including said changed part of said plurality of unit display data are read from said memory unit in said different order for said each predetermined frame or frames, and

wherein at said step (d), said plurality of unit display data including said changed part of said plurality of unit display data are written to said picture displaying unit.

19. (Original): A method of driving a picture displaying apparatus, comprising:

(f) providing a picture displaying apparatus which includes a picture displaying unit having a plurality of light emission elements, said plurality of light emission elements being disposed at a plurality of intersections composed of a plurality of scanning lines to which scanning signals are inputted, respectively and a plurality of data lines to which data signals are

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inputted, respectively, wherein said picture displaying unit includes a plurality of pixels corresponding to said plurality of light emission elements;

(g) providing a memory unit storing a single display data indicative of an display content of said picture displaying unit, wherein said memory unit has a plurality of memory cells, and each of said plurality of memory cells stores a unit display data of a part of said single display data;

(h) reading a plurality of said unit display data from said plurality of memory cells; and

(i) writing said read unit display data to each of said plurality of pixels, and

wherein at said (i), said plurality of read unit display data are written to said picture displaying unit in a different order for each single predetermined frame or each plural predetermined frames, such that said display content in said picture displaying unit is different for said each predetermined frame or frames.

20. (Original): The method of driving a picture displaying apparatus according to claim 19, further comprising:

(j) changing a part of said plurality of unit display data before said (h) is performed, and wherein at said step (h), said plurality of unit display data including said changed part of said plurality of unit display data are read from said plurality of memory cells, and wherein at said step (i), said plurality of unit display data including said changed part of said plurality of unit display data are written to said picture displaying unit in said different order for said each predetermined frame or frames.